

Note: There are limitations in the use of these reports. To understand their use, please read “What cautions should be considered when using Content Focus Reports?” on page 5 of this report.

Spring 2014 Geometry End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 1		
NGSSS Benchmark	Content Focus	Number of Points Possible
Reporting Category 1. Two-Dimensional Geometry		
MA.912.G.1.1	Distance; Midpoint	2
MA.912.G.1.3	Parallelism	2
MA.912.G.2.2	Polygon angle measures	3
MA.912.G.2.3	Lengths and areas of congruent/similar triangles; Properties of congruent polygons; Properties of similar figures; Properties of triangles	4
MA.912.G.2.4	Transformations/dilations; Transformations/rotations	3
MA.912.G.2.5	Area; Dimension changes affecting perimeter; Perimeter	3
MA.912.G.3.3	Properties of congruent quadrilaterals	1
MA.912.G.3.4	Properties of parallelograms; Properties of squares	3
MA.912.G.4.6	Identify similarity in triangles using AA, SAS, and SSS; Using paragraph proofs to show triangles congruent by their sides or angles	2
MA.912.G.4.7	Hinge theorem	1
MA.912.G.5.4	30/60/90 special triangles; 45/45/90 special triangles; Pythagorean theorem	4
MA.912.G.6.5	Area of sector; Circumference; Determine and use measures of arcs and related angles	3
MA.912.G.6.6	Center and radius given equation; Radius given equation	2
MA.912.G.8.4	Distinguishing between conjecture and proof; Supporting conjectures	2
Reporting Category Point Total		35
Reporting Category 2. Three-Dimensional Geometry		
MA.912.G.7.1	Edges on a polyhedron; Vertices in a polyhedron	3
MA.912.G.7.5	Lateral area; Properties of similar solids; Volume	4
MA.912.G.7.7	Cylinder dimension change affecting volume; Pyramid dimension change affecting volume; Rectangular prism dimension change affecting surface area; Sphere dimension change affecting surface area	4
Reporting Category Point Total		11
Reporting Category 3. Trigonometry and Discrete Mathematics		
MA.912.D.6.2	Contrapositive; Converse; Inverse	3
MA.912.T.2.1	Solving for angle with sine; Solving for angle with tan; Solving for side with cos; Solving for side with tan; Solving problems with more than one ratio	5
Reporting Category Point Total		8

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Spring 2014 Geometry End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 2		
NGSSS Benchmark	Content Focus	Number of Points Possible
Reporting Category 1. Two-Dimensional Geometry		
MA.912.G.1.1	Midpoint	2
MA.912.G.1.3	Parallelism	2
MA.912.G.2.2	Polygon angle measures	3
MA.912.G.2.3	Apply theorems involving segments divided proportionally; Lengths and areas of congruent/similar triangles; Properties of congruent polygons; Properties of similar figures	4
MA.912.G.2.4	Transformations/dilations; Transformations/rotations; Transformations/translations	3
MA.912.G.2.5	Area; Dimension changes affecting perimeter; Perimeter	3
MA.912.G.3.3	Properties and proofs of similar quadrilaterals	1
MA.912.G.3.4	Properties of parallelograms; Properties of rhombi	3
MA.912.G.4.6	Using paragraph proofs to show triangles congruent by their sides or angles; Using paragraph proofs to show triangles similar by their sides or angles	2
MA.912.G.4.7	Hinge theorem	1
MA.912.G.5.4	30/60/90 special triangles; 45/45/90 special triangles; Pythagorean theorem	4
MA.912.G.6.5	Area of circles; Determine and use measures of arcs and related angles; Proving theorems about circles	3
MA.912.G.6.6	Determining equations of circles; Radius given equation	2
MA.912.G.8.4	Distinguishing between conjecture and proof; Supporting conjectures	2
Reporting Category Point Total		35
Reporting Category 2. Three-Dimensional Geometry		
MA.912.G.7.1	Edges on a polyhedron; Vertices in a polyhedron	3
MA.912.G.7.5	Lateral area; Properties of congruent solids; Surface area	4
MA.912.G.7.7	Cylinder dimension change affecting volume; Holding volume of cones constant; Rectangular prism dimension change affecting surface area; Sphere dimension change affecting surface area	4
Reporting Category Point Total		11
Reporting Category 3. Trigonometry and Discrete Mathematics		
MA.912.D.6.2	Contrapositive; Converse; Inverse	3
MA.912.T.2.1	Solving for angle with cos; Solving for angle with tan; Solving for side with sine; Solving for side with tan; solving problems with more than one ratio	5
Reporting Category Point Total		8

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Spring 2014 Geometry End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 3		
NGSSS Benchmark	Content Focus	Number of Points Possible
Reporting Category 1. Two-Dimensional Geometry		
MA.912.G.1.1	Distance; Midpoint	2
MA.912.G.1.3	Parallelism	2
MA.912.G.2.2	Polygon angle measures	3
MA.912.G.2.3	Lengths and areas of congruent/similar triangles; Properties of congruent polygons; Properties of similar figures; Properties of triangles	4
MA.912.G.2.4	Transformations/dilations; Transformations/reflections; Transformations/rotations	3
MA.912.G.2.5	Area; Dimension changes affecting area; Perimeter	3
MA.912.G.3.3	Properties and characteristics of quadrilaterals	1
MA.912.G.3.4	Properties of parallelograms; Properties of trapezoids	3
MA.912.G.4.6	Identify similarity in triangles using AA, SAS, and SSS; Using paragraph proofs to show triangles congruent by their sides or angles	2
MA.912.G.4.7	Hinge theorem	1
MA.912.G.5.4	30/60/90 special triangles; 45/45/90 special triangles; Geometric mean; Pythagorean theorem	4
MA.912.G.6.5	Determine and use measures of arcs and related angles	3
MA.912.G.6.6	Center and radius given equation; Radius given equation	2
MA.912.G.8.4	Distinguishing between conjecture and proof; Supporting conjectures	2
Reporting Category Point Total		35
Reporting Category 2. Three-Dimensional Geometry		
MA.912.G.7.1	Edges on a polyhedron; Nets of polyhedra; Vertices in a polyhedron	3
MA.912.G.7.5	Lateral area; Properties of congruent solids; Surface area	4
MA.912.G.7.7	Cylinder dimension change affecting surface area; Cylinder dimension change affecting volume; Rectangular prism dimension change affecting volume; Sphere dimension change affecting surface area	4
Reporting Category Point Total		11
Reporting Category 3. Trigonometry and Discrete Mathematics		
MA.912.D.6.2	Contrapositive; Converse; Inverse	3
MA.912.T.2.1	Solving for angle with sine; Solving for angle with tan; Solving for side with cos; Solving for side with tan; Solving problems with more than one ratio	5
Reporting Category Point Total		8

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Spring 2014 Geometry End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 4		
NGSSS Benchmark	Content Focus	Number of Points Possible
Reporting Category 1. Two-Dimensional Geometry		
MA.912.G.1.1	Justify segment length; Midpoint	2
MA.912.G.1.3	Parallelism	2
MA.912.G.2.2	Polygon angle measures	3
MA.912.G.2.3	Lengths and areas of congruent/similar triangles; Properties of congruent polygons; Similar triangles	4
MA.912.G.2.4	Transformations/dilations; Transformations/rotations; Transformations/translations	3
MA.912.G.2.5	Area; Perimeter	3
MA.912.G.3.3	Properties and characteristics of quadrilaterals	1
MA.912.G.3.4	Properties of parallelograms; Properties of rectangles; Properties of rhombi	3
MA.912.G.4.6	Identify congruency in triangles using SSS, SAS, ASA, AAS, and HL; Using paragraph proofs to show triangles congruent by their sides or angles	2
MA.912.G.4.7	Hinge theorem	1
MA.912.G.5.4	30/60/90 special triangles; 45/45/90 special triangles; Pythagorean theorem	4
MA.912.G.6.5	Area of sector; Central angles; Determine and use measures of arcs and related angles	3
MA.912.G.6.6	Center given equation; Radius given equation	2
MA.912.G.8.4	Distinguishing between conjecture and proof; Supporting conjectures	2
Reporting Category Point Total		35
Reporting Category 2. Three-Dimensional Geometry		
MA.912.G.7.1	Edges on a polyhedron; Faces on a polyhedron	3
MA.912.G.7.5	Lateral area; Properties of congruent solids; Volume	4
MA.912.G.7.7	Cylinder dimension change affecting surface area; Cylinder dimension change affecting volume; Rectangular prism dimension change affecting volume; Sphere dimension change affecting surface area	4
Reporting Category Point Total		11
Reporting Category 3. Trigonometry and Discrete Mathematics		
MA.912.D.6.2	Contrapositive; Converse; Inverse	3
MA.912.T.2.1	Solving for angle with tan; Solving for side with cos; Solving for side with sine; Solving problems with more than one ratio	5
Reporting Category Point Total		8

What is content focus?

"Content focus" is a term that defines the specific content measured by each Spring 2014 Geometry EOC Assessment test item.

The Next Generation Sunshine State Standards (NGSSS) benchmarks and content foci assessed on the Spring 2014 Geometry EOC Assessment are not predictive of future Geometry EOC Assessments.

What cautions should be considered when using Content Focus Reports?

Content Focus Reports should not be used to make decisions about instruction at the individual student level. Some reporting categories have too few test items to report reliable or meaningful scores at the student level. While well-intended, providing remedial instruction in a specific reporting category may not be justified and may be an inefficient use of instructional time. Content focus data should not be used as sole indicators to determine remedial needs of students.

When interpreting content focus data, the following cautions and information should also be considered:

- The number of items in a reporting category may vary from one year to another. Consequently, users should not compare performance data such as mean percent correct.
- Mean content area scores for each test form might be different; therefore, users should not compare content area scores across test forms.
- The difficulty of the items measuring each benchmark will vary from one year to the next. Consequently, users should not compare content area scores across years.
- The analysis is based on state-level data that are not intended to provide specific classroom, school, or district interpretations.
- Scale score values cannot accurately be determined using Content Focus Reports for a number of reasons. For instance, test scores are generated from students' performance on the entirety of the test, which accounts for the difficulty (also called cognitive complexity) of test items.

How may content area scores be used?

Guidance on how content area scores may be used by schools and districts is provided on pages 11-12 of [Understanding Florida End-of-Course Assessment Reports, Spring 2014](#) (PDF).